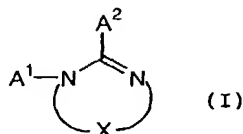


ABSTRACT

There is provided cyclic amidine compounds of the following formula (I):



wherein:

A¹ and A² are hydrogen atom, optionally substituted alkyl group; optionally substituted aryl group; or optionally substituted heterocyclic group; and

X is -C(R¹,R²)-C(R³,R⁴)-, -C(R⁵)=C(R⁶)-, -C(R⁷,R⁸)-C(R⁹,R¹⁰)-C(R¹¹,R¹²)-, or -C(R¹³,R¹⁴)-C(R¹⁵,R¹⁶)-NH- (wherein, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹², R¹³, R¹⁴, R¹⁵ and R¹⁶ are hydrogen atom; halogen atom; optionally substituted alkyl group; optionally substituted aryl group; or optionally substituted heterocyclic group; or pharmaceutically acceptable salts thereof.

These compounds have good affinity for α₄β₂ nicotinic acetylcholine receptors and activate the same to thereby exert a preventive or therapeutic effect on cerebral dysfunction.